



SLIPKOTE[®] Specialty Lubricants

manufactured by HUSK-ITT Corporation / SPECIALTY LUBRICANTS Corporation

Eastern Region Office:

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MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SLIPKOTE Aluminum Complex FG
PRODUCT CODE: 37300
PRODUCT USE: Industrial applications: lubricants, grease
REVISION DATE: 01/18/12

MANUFACTURER: SPECIALTY LUBRICANTS CORPORATION
8300 Corporate Park Drive
Macedonia, OH 44056 USA
(P): 1-800-238-5823
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SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

PHYSICAL STATE: Solid (grease).
COLOR: White.
ODOR: Mild. Petroleum Oil.
SIGNAL WORD: WARNING!
HAZARD STATEMENTS: CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
PRECAUTIONARY MEASURES: Do not eat, drink, or smoke when using this product. Avoid contact with eyes, skin and clothing. Washing thoroughly after handling.
OSHA/HCS STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
ROUTES OF ENTRY: Dermal contact. Eye contact. Inhalation. Ingestion.

POTENTIAL ACUTE HEALTH EFFECTS:

INHALATION: No known significant effects or critical hazards.
INGESTION: No known significant effects or critical hazards.
SKIN: Moderately irritating to the skin. No significant irritation expected other than possible mechanical irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
EYES: Severely irritating to eyes. Risk of serious damage to eyes. No significant irritation expected other than possible mechanical irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

SECTION 2: HAZARDS IDENTIFICATION (CONTINUED)

POTENTIAL CHRONIC HEALTH EFFECTS:

| | |
|-------------------------------|---|
| CHRONIC EFFECTS: | Contains material that may cause target organ damage, based on animal data. |
| CARCINOGENICITY: | No known significant effects or critical hazards. |
| MUTAGENICITY: | No known significant effects or critical hazards. |
| TERATOGENICITY: | No known significant effects or critical hazards. |
| DEVELOPMENTAL EFFECTS: | No known significant effects or critical hazards. |
| FERTILITY EFFECTS: | No known significant effects or critical hazards. |
| TARGET ORGANS: | Contains material which may cause damage to the following organs: lungs, upper respiratory tract. |

OVER-EXPOSURE SIGNS/SYMPTOMS:

| | |
|--|--|
| INHALATION: | No specific data. |
| INGESTION: | No specific data. |
| SKIN: | Adverse symptoms may include the following: irritation, redness |
| EYES: | Adverse symptoms may include the following: pain or irritation, watering, redness |
| MEDICAL CONDITIONS AGGRAVATED BY OVER-EXPOSURE: | Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product. |

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

UNITED STATES:

| NAME | CAS NUMBER | % |
|--|------------|----------|
| White mineral oil (petroleum) | 8042-47-5 | 50 to 70 |
| Zinc oxide United States - FDA Food additives generally recognized as safe GRAS 21CFR 182.5991, 182.8991 | 1314-13-2 | 7 to 13 |
| Calcium carbonate | 471-34-1 | 5 to 10 |
| (benzoato-O,O')hydroxy(octadecanoato-O,O')aluminium | 54326-11-3 | 5 to 10 |

CANADA:

| NAME | CAS NUMBER | % |
|--|------------|----------|
| White mineral oil (petroleum) | 8042-47-5 | 50 to 70 |
| Zinc oxide United States - FDA Food additives generally recognized as safe GRAS 21CFR 182.5991, 182.8991 | 1314-13-2 | 7 to 13 |
| Calcium carbonate | 471-34-1 | 5 to 10 |
| (benzoato-O,O')hydroxy(octadecanoato-O,O')aluminium | 54326-11-3 | 5 to 10 |

MEXICO:

| NAME | CAS NUMBER | UN # | % | IDLH | CLASSIFICATION | | |
|--|------------|------|----------|------------------------|----------------|---|---|
| | | | | | H | F | R |
| White mineral oil (petroleum) | 8042-47-5 | N/A | 50 to 70 | 2500 mg/m ³ | 1 | 1 | 0 |
| Zinc oxide United States - FDA Food additives generally recognized as safe GRAS 21CFR 182.5991, 182.8991 | 1314-13-2 | N/A | 7 to 13 | 500 mg/m ³ | 1 | 0 | 0 |
| Calcium carbonate | 471-34-1 | N/A | 5 to 10 | - | 2 | 0 | 0 |
| (benzoato-O,O')hydroxy(octadecanoato-O,O')aluminium | 54326-11-3 | N/A | 5 to 10 | - | 1 | 0 | 0 |

SECTION 4: FIRST AID MEASURES

| | |
|------------------------------------|--|
| EYE CONTACT: | Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately. |
| SKIN CONTACT: | In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately. |
| INHALATION: | Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. |
| INGESTION: | Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately. |
| PROTECTION OF FIRST-AIDERS: | No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |
| NOTES TO PHYSICIAN: | No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |

SECTION 5: FIRE-FIGHTING MEASURES

| | |
|--|---|
| FLAMMABILITY OF THE PRODUCT: | No specific fire or explosion hazard. |
| EXTINGUISHING MEDIA: | |
| SUITABLE: | Use an extinguishing agent suitable for the surrounding fire. |
| NOT SUITABLE: | None known. |
| SPECIAL EXPOSURE HAZARDS: | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: | Decomposition products may include the following materials: carbon dioxide, carbon monoxide, and metal oxide/oxides. |
| SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

| | |
|-----------------------------------|---|
| PERSONAL PRECAUTIONS: | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8). |
| ENVIRONMENTAL PRECAUTIONS: | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| METHODS FOR CLEANING UP: | |
| SMALL SPILL: | Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |
| LARGE SPILL | Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal. |

SECTION 7: HANDLING AND STORAGE

| | |
|------------------|---|
| HANDLING: | Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| STORAGE: | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

UNITED STATES:

| INGREDIENT | EXPOSURE LIMITS |
|--|--|
| White mineral oil (petroleum) | <p>ACGIH TLV (United States, 2/2010). TWA: 5 mg/m³ 8 hour(s). Form: Inhalable fraction. See Appendix C, paragraph A. Inhalable Particulate Mass TLVs (IPM-TLVs) for those materials that are hazardous when deposited anywhere in the respiratory tract.</p> <p>NIOSH REL (United States, 6/2009). TWA: 5 mg/m³ 10 hour(s). Form: Mist STEL: 10 mg/m³ 15 minute(s). Form: Mist</p> <p>OSHA PEL (United States, 11/2006). TWA: 5 mg/m³ 8 hour(s).</p> |
| Zinc oxide | <p>NIOSH REL (United States, 6/2009). CEIL: 15 mg/m³ Form: Dust TWA: 5 mg/m³ 10 hour(s). Form: Dust and fumes STEL: 10 mg/m³ 15 minute(s). Form: Fume</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hour(s). Form: Fume STEL: 10 mg/m³ 15 minute(s). Form: Fume TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction TWA: 10 mg/m³ 8 hour(s). Form: Total dust</p> <p>OSHA PEL (United States, 11/2006). TWA: 5 mg/m³ 8 hour(s). Form: Fume TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction TWA: 15 mg/m³ 8 hour(s). Form: Total dust</p> <p>ACGIH TLV (United States, 2/2010). TWA: 2 mg/m³ 8 hour(s). Form: Respirable fraction; see Appendix C STEL: 10 mg/m³ 15 minute(s). Form: Respirable fraction; see Appendix C</p> |
| Calcium carbonate | <p>OSHA PEL (United States, 11/2006). TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction TWA: 15 mg/m³ 8 hour(s). Form: Total dust</p> |
| (benzoato-O,O') HYDROXY(octadecanoato-O,O') ALUMINUM | <p>OSHA PEL 1989 (United States, 3/1989). TWA: 2 mg/m³, (as Al) 8 hour(s).</p> <p>NIOSH REL (United States, 6/2009). TWA: 2 mg/m³, (as Al) 10 hour(s).</p> |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

CANADA:

| OCCUPATIONAL EXPOSURE LIMITS | | TWA (8hrs) | | | STEL (15 mins.) | | | Ceiling | | | Notation |
|---|-----------------|------------|-------------------|-------|-----------------|-------------------|-------|---------|-------------------|-------|----------|
| INGREDIENT | LIST NAME | ppm | mg/m ³ | Other | ppm | mg/m ³ | Other | ppm | mg/m ³ | Other | |
| Zinc oxide | US ACGIH 2/2010 | - | 2 | - | - | 10 | - | - | - | - | [a] |
| | AB 4/2009 | - | 2 | - | - | 10 | - | - | - | - | [b] |
| | BC 10/2009 | - | 2 | - | - | 10 | - | - | - | - | [b] |
| | ON 7/2010 | - | 2 | - | - | 10 | - | - | - | - | [a] |
| | QC 6/2008 | - | 5 | - | - | 10 | - | - | - | - | [c] |
| (benzoato-O,O') hydroxyl (octadecanoato-O,O')aluminium, as Al | AB 4/2009 | - | 2 | - | - | - | - | - | - | - | [3] |
| | QC 6/2008 | - | 2 | - | - | - | - | - | - | - | [3] |
| White mineral oil (petroleum) | US ACGIH 2/2010 | - | 5 | - | - | - | - | - | - | - | [d] |
| | BC 10/2009 | - | 1 | - | - | - | - | - | - | - | [e] |
| | ON 7/2010 | - | 5 | - | - | 10 | - | - | - | - | [e] |
| | QC 6/2008 | - | 5 | - | - | 10 | - | - | - | - | [e] |
| Calcium carbonate | AB 4/2009 | - | 10 | - | - | - | - | - | - | - | [3] |
| | QC 6/2008 | - | 10 | - | - | - | - | - | - | - | [f] |

[3] skin sensitization

Form: [a] Respirable fraction; see Appendix C [b] Respirable [c]fume [d] Inhalable fraction. See Appendix C, paragraph A. Inhalable Particulate Mass TLVs (IPM-TLVs) for those materials that are hazardous when deposited anywhere in the respiratory tract. [e]mist [f] Total dust.

MEXICO:

| INGREDIENT | OCCUPATIONAL EXPOSURE LIMITS |
|---|--|
| White Mineral Oil | NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 5 mg/m ³ 8 hour(s). Form: mist LMPE-CT: 10 mg/m ³ 15 minute(s). Form: mist |
| Zinc Oxide | NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 10 mg/m ³ 8 hour(s). Form: powder LMPE-PPT: 5 mg/m ³ 8 hour(s). Form: smoke LMPE-CT: 10 mg/m ³ 15 minute(s). Form: smoke |
| (benzoato-O,O') hydroxy(octadecanoato-O,O') aluminium | NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 2 mg/m ³ 8 hour(s). |

CONSULT LOCAL AUTHORITIES FOR ACCEPTABLE EXPOSURE LIMITS

RECOMMENDED MONITORING PROCEDURES: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

ENGINEERING MEASURES: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

HYGIENE MEASURES: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

PERSONAL PROTECTION:

- RESPIRATORY:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- HANDS:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- EYES:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- SKIN:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- ENVIRONMENTAL EXPOSURE CONTROLS:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|------------------------------------|----------------------|-----------------------------------|--------------------------------|
| PHYSICAL STATE: | Solid (grease). | DENSITY: | 0.888g/cm ³ |
| FLASH POINT: | N/A | VAPOR PRESSURE: | N/A |
| AUTO-IGNITION TEMPERATURE: | N/A | VAPOR DENSITY: | N/A |
| FLAMMABLE LIMITS: | N/A | VOLATILITY: | N/A |
| COLOR: | White. | EVAPORATION RATE: | N/A |
| ODOR: | Mild. Petroleum Oil. | VISCOSITY: | N/A |
| pH: | N/A | DISPERSIBILITY PROPERTIES: | N/A |
| BOILING/CONDENSATION POINT: | N/A | SOLUBILITY: | Insoluble in cold & hot water. |
| MELTING/FREEZING POINT: | N/A | ADDITIONAL COMMENTS: | N/A |

SECTION 10: STABILITY AND REACTIVITY

- STABILITY:** The product is stable.
- CONDITIONS TO AVOID:** No specific data.
- INCOMPATIBILITY:** No specific data.
- HAZARDOUS DECOMPOSITION:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- POSSIBILITY OF HAZARDOUS REACTIONS:** Under normal conditions or storage and use, hazardous reactions will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

UNITED STATES:

- ACUTE TOXICITY:** No known significant effects or critical hazards.

| INGREDIENT NAME | RESULT | SPECIES | DOSE | EXPOSURE |
|-------------------------------|-----------|---------|------------|----------|
| White mineral oil (petroleum) | LD50 Oral | Rat | >5000mg/kg | - |
| Calcium carbonate | LD50 Oral | Rat | 6450 mg/kg | - |

SECTION 11: TOXICOLOGICAL INFORMATION (CONTINUED)

CHRONIC TOXICITY: Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation.

IRRITATION/CORROSION:

| INGREDIENT NAME | RESULT | SPECIES | SCORE | EXPOSURE | OBSERVATION |
|-------------------|--------------------------|---------|-------|----------|-------------|
| Calcium carbonate | Eyes – Severe irritant | Rabbit | - | - | - |
| | Skin – Moderate irritant | Rabbit | - | - | - |
| Zinc oxide | Eyes – Mild irritant | Rabbit | - | - | - |
| | Skin – Mild irritant | Rabbit | - | - | - |

SKIN: Causes mild skin irritation. No significant irritation expected other than possible mechanical irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

EYES: Moderately irritating to eyes. No significant irritation expected other than possible mechanical irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

RESPIRATORY: Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation.

SENSITIZER:

SKIN: No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans

RESPIRATORY: Sensitization not suspected for humans.

CARCINOGENICITY: There is no data available on the preparation itself. Carcinogenicity not suspected for humans.

| INGREDIENT NAME | ACGIH | IARC | EPA | NIOSH | NTP | OSHA |
|-----------------|-------|------|-----|-------|-----|------|
| Zinc oxide | A4 | - | - | - | - | - |

MUTAGENICITY: There is no data available on the preparation itself. Mutagenicity not suspected for humans.

TERATOGENICITY: There is no data available on the preparation itself. Teratogenicity not suspected for humans.

REPRODUCTIVE TOXICITY: There is no data available on the preparation itself. Not considered to be dangerous to humans, according to our database.

CANADA:

ACUTE TOXICITY: No known significant effects or critical hazards.

| INGREDIENT NAME | RESULT | SPECIES | DOSE | EXPOSURE |
|-------------------------------|-----------|---------|------------|----------|
| White mineral oil (petroleum) | LD50 Oral | Rat | >5000mg/kg | - |
| Calcium carbonate | LD50 Oral | Rat | 6450 mg/kg | - |

CHRONIC TOXICITY: Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation.

IRRITATION/CORROSION:

| INGREDIENT NAME | RESULT | SPECIES | SCORE | EXPOSURE | OBSERVATION |
|-------------------|--------------------------|---------|-------|----------|-------------|
| Calcium carbonate | Eyes – Severe irritant | Rabbit | - | - | - |
| | Skin – Moderate irritant | Rabbit | - | - | - |
| Zinc oxide | Eyes – Mild irritant | Rabbit | - | - | - |
| | Skin – Mild irritant | Rabbit | - | - | - |

SKIN: Causes mild skin irritation. No significant irritation expected other than possible mechanical irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

SECTION 11: TOXICOLOGICAL INFORMATION (CONTINUED)

EYES: Moderately irritating to eyes. No significant irritation expected other than possible mechanical irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

RESPIRATORY: Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation.

SENSITIZER:

SKIN: No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans

RESPIRATORY: Sensitization not suspected for humans.

CARCINOGENICITY: There is no data available on the preparation itself. Carcinogenicity not suspected for humans.

| INGREDIENT NAME | ACGIH | IARC | EPA | NIOSH | NTP | OSHA |
|-----------------|-------|------|-----|-------|-----|------|
| Zinc oxide | A4 | - | - | - | - | - |

MUTAGENICITY: There is no data available on the preparation itself. Mutagenicity not suspected for humans.

TERATOGENICITY: There is no data available on the preparation itself. Teratogenicity not suspected for humans.

REPRODUCTIVE TOXICITY: There is no data available on the preparation itself. Not considered to be dangerous to humans, according to our database.

MEXICO:

ACUTE TOXICITY: No known significant effects or critical hazards.

| INGREDIENT NAME | RESULT | SPECIES | DOSE | EXPOSURE |
|-------------------------------|-----------|---------|------------|----------|
| White mineral oil (petroleum) | LD50 Oral | Rat | >5000mg/kg | - |
| Calcium carbonate | LD50 Oral | Rat | 6450 mg/kg | - |

CHRONIC TOXICITY: Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation.

IRRITATION/CORROSION:

| INGREDIENT NAME | RESULT | SPECIES | SCORE | EXPOSURE | OBSERVATION |
|-------------------|--------------------------|---------|-------|----------|-------------|
| Calcium carbonate | Eyes – Severe irritant | Rabbit | - | - | - |
| | Skin – Moderate irritant | Rabbit | - | - | - |
| Zinc oxide | Eyes – Mild irritant | Rabbit | - | - | - |
| | Skin – Mild irritant | Rabbit | - | - | - |

SKIN: Causes mild skin irritation. No significant irritation expected other than possible mechanical irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

EYES: Moderately irritating to eyes. No significant irritation expected other than possible mechanical irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

RESPIRATORY: Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation.

SENSITIZER:

SKIN: No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans

RESPIRATORY: Sensitization not suspected for humans.

CARCINOGENICITY: There is no data available on the preparation itself. Carcinogenicity not suspected for humans.

| INGREDIENT NAME | ACGIH | IARC | EPA | NIOSH | NTP | OSHA |
|-----------------|-------|------|-----|-------|-----|------|
| Zinc oxide | A4 | - | - | - | - | - |

SECTION 11: TOXICOLOGICAL INFORMATION (CONTINUED)

MUTAGENICITY: There is no data available on the preparation itself. Mutagenicity not suspected for humans.

TERATOGENICITY: There is no data available on the preparation itself. Teratogenicity not suspected for humans.

REPRODUCTIVE TOXICITY: There is no data available on the preparation itself. Not considered to be dangerous to humans.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Not readily biodegradable.

UNITED STATES:

AQUATIC ECOTOXICITY: There is no data available on the preparation itself.

| INGREDIENT NAME | RESULT | SPECIES | EXPOSURE |
|-------------------|--------------------------------------|---|----------|
| Calcium carbonate | Acute LC50>56000000 ug/L fresh water | Fish – Gambusia affinis – Adult | 96 hours |
| Zinc oxide | Acute LC50 98 ug/L Fresh water | Daphnia - Daphnia magna - Neonate - <24 hours | 48 hours |
| | Acute LC50 1.1 ppm Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Chronic NOEC 0.4 mg/L Fresh water | Daphnia - Daphnia magna – Neonate | 48 hours |

PERSISTENCE/DEGRADIBILITY: This product has not been tested for biodegradation. Not readily biodegradable. This product is not expected to bioaccumulate through food chains in the environment.

CANADA:

AQUATIC ECOTOXICITY: There is no data available on the preparation itself.

| INGREDIENT NAME | RESULT | SPECIES | EXPOSURE |
|-------------------|--------------------------------------|---|----------|
| Calcium carbonate | Acute LC50>56000000 ug/L fresh water | Fish – Gambusia affinis – Adult | 96 hours |
| Zinc oxide | Acute LC50 98 ug/L Fresh water | Daphnia - Daphnia magna - Neonate - <24 hours | 48 hours |
| | Acute LC50 1.1 ppm Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Chronic NOEC 0.4 mg/L Fresh water | Daphnia - Daphnia magna – Neonate | 48 hours |

PERSISTENCE/DEGRADIBILITY: This product has not been tested for biodegradation. Not readily biodegradable. This product is not expected to bioaccumulate through food chains in the environment.

MEXICO:

AQUATIC ECOTOXICITY: There is no data available on the preparation itself.

| INGREDIENT NAME | RESULT | SPECIES | EXPOSURE |
|-------------------|--------------------------------------|---|----------|
| Calcium carbonate | Acute LC50>56000000 ug/L fresh water | Fish – Gambusia affinis – Adult | 96 hours |
| Zinc oxide | Acute LC50 98 ug/L Fresh water | Daphnia - Daphnia magna - Neonate - <24 hours | 48 hours |
| | Acute LC50 1.1 ppm Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Chronic NOEC 0.4 mg/L Fresh water | Daphnia - Daphnia magna – Neonate | 48 hours |

PERSISTENCE/DEGRADIBILITY: This product has not been tested for biodegradation. Not readily biodegradable. This product is not expected to bioaccumulate through food chains in the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

SECTION 14: TRANSPORT INFORMATION

| REGULATORY INFORMATION | UN NUMBER | PROPER SHIPPING NAME | CLASSES | PG* | LABEL | ADDITIONAL INFORMATION |
|------------------------|----------------|----------------------|---------|-----|-------|------------------------|
| DOT CLASSIFICATION | Not Regulated. | - | - | - | | - |
| TDG CLASSIFICATION | Not Regulated. | - | - | - | | - |
| MEXICO CLASSIFICATION | Not Regulated. | - | - | - | | - |
| ADR/RID CLASS | Not Regulated. | - | - | - | | - |
| IMDG CLASS | Not Regulated. | - | - | - | | - |
| IATA-DGR CLASS | Not Regulated. | - | - | - | | - |

PG* : Packing Group

SECTION 15: REGULATORY INFORMATION

UNITED STATES:

HCS CLASSIFICATION: Irritating material, target organ effects.

U.S. FEDERAL REGULATIONS: **TSCA 6 proposed risk management:** Lead
TSCA 8(a) IUR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): All components are listed or exempted.
TSCA 12(b) annual export notification: Lead
Clean Water Act (CWA) 307: Zinc oxide; Lead; Cadmium (Non-pyrophoric)
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: Zinc oxide; Calcium carbonate
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Zinc oxide: Immediate (acute) health hazard, Delayed (chronic) health hazard; Calcium carbonate: Immediate (acute) health hazard

CLEAN AIR ACT SECTION 112(b) HAZARDOUS AIR POLLUTANTS (HAPS): Not listed

CLEAN AIR ACT SECTION 602 CLASS I SUBSTANCES: Not listed

CLEAN AIR ACT SECTION 602 CLASS II SUBSTANCES: Not listed

DEA LIST I CHEMICALS (PRECURSOR CHEMICALS): Not listed

DEA LIST II CHEMICALS (ESSENTIAL CHEMICALS): Not listed

SECTION 15: REGULATORY INFORMATION (CONTINUED)

SARA 313:

| | PRODUCT NAME | CAS NUMBER | CONCENTRATION % |
|---|-----------------------|------------|-----------------|
| FORM R – REPORTING REQUIREMENTS: | Zinc Oxide | 1314-13-2 | <9 |
| | Lead-impurity in zinc | 7439-92-1 | <0.00009 |
| SUPPLIER NOTIFICATION: | Zinc Oxide | 1314-13-2 | <9 |

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

STATE REGULATIONS:

| | |
|--|--|
| CONNECTICUT CARCINOGEN REPORTING: | None of the components are listed. |
| CONNECTICUT HAZARDOUS MATERIAL SURVEY: | None of the components are listed. |
| FLORIDA SUBSTANCES: | None of the components are listed. |
| ILLINOIS CHEMICAL SAFETY ACT: | None of the components are listed. |
| ILLINOIS TOXIC SUBSTANCES DISCLOSURE TO EMPLOYEE ACT: | None of the components are listed. |
| LOUISIANA REPORTING: | None of the components are listed. |
| LOUISIANA SPILL: | None of the components are listed. |
| MASSACHUSETTS SPILL: | None of the components are listed. |
| MASSACHUSETTS SUBSTANCES: | The following components are listed: ZINC OXIDE FUME |
| MICHIGAN CRITICAL MATERIAL: | None of the components are listed. |
| MINNESOTA HAZARDOUS SUBSTANCES: | None of the components are listed. |
| NEW JERSEY SPILL: | None of the components are listed. |
| NEW JERSEY TOXIC CATASTROPHE PREVENTION ACT: | None of the components are listed. |
| NEW JERSEY HAZARDOUS SUBSTANCES: | The following components are listed: ZINC OXIDE |
| NEW YORK ACUTELY HAZARDOUS SUBSTANCES: | None of the components are listed. |
| NEW YORK TOXIC CHEMICAL RELEASE REPORTING: | None of the components are listed. |
| PENNSYLVANIA RTK HAZARDOUS SUBSTANCES: | The following components are listed: ZINC OXIDE (ZNO); ALUMINUM SOLUBLE SALTS |
| RHODE ISLAND HAZARDOUS SUBSTANCES: | None of the components are listed. |
| CALIFORNIA PROP. 65: | WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer. WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm. |

| INGREDIENT NAME | CANCER | REPRODUCTIVE | NO SIGNIFICANT RISK LEVEL | MAXIMUM ACCEPTABLE DOSAGE LEVEL |
|--|--------|--------------|---------------------------|---------------------------------|
| Cadium (Non- pyrophoric)- impurity in Zinc | Yes | Yes | 0.05 µg/day (inhalation) | 4.1 µg/day (ingestion) |
| Lead- impurity in Zinc | Yes | Yes | 15 µg/day (ingestion) | Yes |

UNITED STATES INVENTORY (TSCA 8b): Not determined.

SECTION 15: REGULATORY INFORMATION (CONTINUED)

CANADA:

WHMIS (CANADA): Not controlled under WHMIS (Canada).

CANADIAN LISTS:

CANADIAN NPRI: The following components are listed: White mineral oil; Zinc

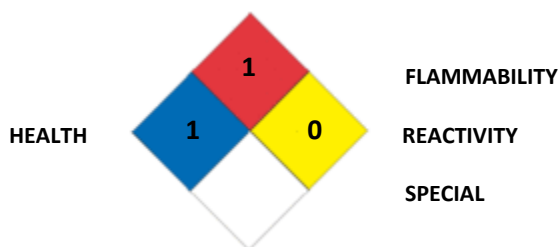
CEPA TOXIC SUBSTANCES: None of the components are listed.

CANADA INVENTORY (DSL/NDL): All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

MEXICO:

CLASSIFICATION:



INTERNATIONAL REGULATIONS:

INTERNATIONAL LISTS:

AUSTRALIA INVENTORY (AICS): All components are listed or exempted.

CHINA INVENTORY (IECSC): All components are listed or exempted.

JAPAN INVENTORY: Not determined.

KOREA INVENTORY: Not determined.

NEW ZEALAND INVENTORY OF CHEMICALS (NZIoC): All components are listed or exempted.

PHILIPPINES INVENTORY (PICCS): Not determined.

EUROPE INVENTORY: All components are listed or exempted.

CHEMICAL WEAPONS CONVENTION LIST SCHEDULE I CHEMICALS: Not listed.

CHEMICAL WEAPONS CONVENTION LIST SCHEDULE II CHEMICALS: Not listed.

CHEMICAL WEAPONS CONVENTION LIST SCHEDULE III CHEMICALS: Not listed.

SECTION 16: OTHER INFORMATION

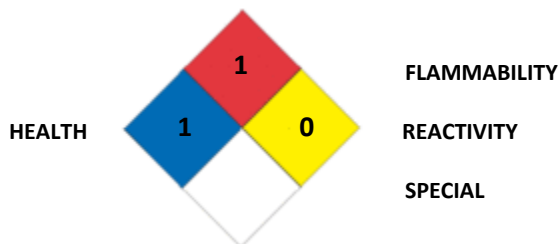
LABEL REQUIREMENTS: CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

| | <u>Health</u> | <u>Fire</u> | <u>Reactivity</u> | <u>PPE</u> |
|-------------------|---------------|-------------|-------------------|------------|
| HMIS CODE: | 1 | 1 | 0 | B |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

SECTION 16: OTHER INFORMATION (CONTINUED)

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):



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The above information is based on the data of which we are aware and believed to be correct as of the date hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his/her own determination of the suitability of the material for his/her particular purpose.

N/D Not Determined N/A Not Applicable
< Less Than > Greater Than